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The
Modern Gladiolus



"MRS. FRANK PENDLETON"

PHOTOGRAPHED FROM MY FLOWERS SEPTEMBER 1914

BEST STRAINS AND VARIETIES GROWN BY
GEO. S. WOODRUFF
INDEPENDENCE, IOWA

THE MODERN GLADIOLUS

While no one kind of flower can take the place of others, no flower can come so near doing so as the Modern Gladiolus.

I say "Modern" because, while the Gladiolus has been cultivated for a hundred years, it has been so much improved in size, form and infinite variety of markings and shades that it seems almost like a new race. The improvement in this, "The People's Orchid," as it has been called, has been so rapid and so recent that an exhibit of the cut flowers, such as I make annually at State and County fairs, is a revelation and a surprise to thousands.

Anybody who has a good garden spot can grow the Gladiolus; the bulbs are cheap; the cut flowers last a week or ten days in water, have no oppressive odor and do not fall to pieces and are as beautiful as orchids.

The name "gladiolus" (plural gladioli) is Latin in form, derived from gladius, a sword. I prefer the pronunciation "gladdy-oh-lus" since it gives all vowels their proper sound, especially the first, which is never distinctly pronounced when the second syllable is accented. Moreover, the pronunciation "eye" of the second syllable does not agree with continental European usage nor with the pronunciation of Latin as taught in modern schools. And already, as a result of the "eye" pronunciation many people are already saying "gladahlias"—a perfectly natural result. Many growers, during the last thirty years or more, have worked to improve this beautiful flower, both in this country and Europe. Lemoine of France introduced the Lemoine or "butterfly" strain. This was followed by the Childs strain produced by Max Leichtlin, of Germany and improved by Hallock. This strain has larger flowers and strong growth but is lacking in light colors which are productive. Other laborers in this field of improvement were Burbank, Crawford, Moore, Dr. Van Fleet and other Americans but, doubtless the greatest advance was marked in 1900 by H. H. Groff, a banker in Canada, by the exhibition of his "hybrids" (more properly "crosses") at the Pan-American Exposition in Buffalo. These hybrids, included examples of all the different strains theretofore known, in the most wonderful variety, as the result of fifteen years work in raising seedlings from hand-pollinated flowers. Doubtless this is still the finest and most varied strain but it has been most useful in furnishing material and inspiration to a multitude of others who have taken up the work. Many of the fine named sorts which have been introduced during the last fifteen years are either selections from this collection or seedlings produced from it.

A special selection from "Groff's Hybrids" is the "Silver Trophy," Strain and is divided into three color sections.

The basis of my collection is the Groff's Hybrid strain, to which, however, I have added the best I could obtain from all sources. The Groff's strain alone comprises thousands of varieties, most of which have never been named, so that you may buy from me for years and still get different sorts.

HOW TO GROW THE GLADIOLUS.

The Gladiolus in its wild state numbers many species, only a few of which are desirable, and comparatively few were used in the productions of the cultivated forms.

It is increased in three ways: by division (when the bulb throws up two or more shoots,) by cormels or bulblets and by seed. The first two ways produce bulbs of the same sort as the parent but seedlings may be of almost as many sorts as seeds and perhaps few worth keeping. This is the way new new sorts are obtained.

WHERE Plant in any fairly rich soil except stiff clay, a sandy loam, retentive of moisture preferred, but it should be well drained. Soil recently in grass is, perhaps, the best. Avoid contact with manure which should never be fresh. If the same soil be used for several years it is recommended that ashes (wood) and old manure be plowed in the Fall previous. If the soil be clayey or stiff put sandy loam in the furrow when planting. Plant in full exposure to the sun but do not plant among the roots of trees or against the south side of a house.

WHEN? This is important. Do not plant all at one time but at intervals of about two weeks, beginning as soon as the ground will work well and continue nearly up to July. This, together with the fact that some varieties are naturally earlier than others, will give a succession of bloom from July to time of hard frosts. Plant in rows far enough apart to work well, whether by hand or horse, and about three times the diameter of the bulb apart in the row. I prefer to plant deep, five inches for the large bulbs and three for the smallest. If the ground be dry and you have water at hand, water at the start and again when the flower buds show color. Above all keep the ground always loose and mellow on the surface by cultivating as often as it rains or you have time, beginning before the plants are up. I use a wheel hoe between the rows, which are twenty inches apart, and a fine steel rake on the row. In field culture, where a horse can be used for cultivating, I plant 30 inches apart. Cultivate as soon after each rain as the ground will work well. In very hot weather mulch between the rows with straw or hay. Dig the bulbs before the ground freezes, dry, cut off the tops and store in a cool, dry, frost proof place in shallow boxes or baskets. The roots and the old bulb may be pulled off whenever you have time in the winter.

CUT FLOWERS

Cut the whole stem as soon as the first two or three flowers are open and let the flowers expand in the house. If extra large flowers are desired some recommend that the last few buds be cut off at the start. It is believed that cutting the flower stem, if not too much foliage is removed, improves the bulbs. Every day or two pull off the oldest flowers, shorten the stem and change the water. Treated in this way the stem will continue to bloom from a week to ten days, especially if put in a cool place at night. Flowers thus opening in the house will gradually be lighter in color (often an improvement) but this tendency may be lessened by setting the vase where they will get the morning sunlight after changing the water. The very last tip ends, which may have become so blanched that the stems will not support the flower, will make exquisite table bouquets in a shallow dish with a little fine green foliage.

EVELYN KIRTLAND—The flowers, of strong substance, are a beautiful shade of rosy pink, darker at the edges, fading to shell pink at the center, with brilliant scarlet blotches on lower petals, the entire flower showing a glistening sparkling lustre. The form is wide open, somewhat reflexed, slightly fluted and many open at one time. Spike very tall, straight but slender and bending gracefully with its burden of blooms. Wonderfully decorative. Winner of the Chas. F. Fairbanks prize in "Best Display New Seedlings," Cleveland, 1915, Also received Award of Merit from Gladioli Society of Ohio

—Price 50c Each.



Miss Evelyn Kirtland measuring the length of spike (note yardstick) of the Gladiolus named for her. The one she is measuring was cut close to the ground. Three buds are off the top in the illustration. The other spikes were cut leaving four leaves of foliage.

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HOW TO BUY If your means are limited buy freely of the mixtures, as there are no poor sorts in my collection, adding a few of such named sorts as you think you want to be sure to have. In buying named sorts that are new better buy not less than two of a kind for fear of mistakes which will sometimes occur. It is more satisfactory to have a quantity so as to be able to cut a good lot of flowers at a time and so as to be able to divide your planting as previously recommended. After you have got a fair stock you may invest more in named sorts. You need not order dozens of one sort but I will make up the dozen from different sorts. Half dozen at dozen price or 50 at hundred rate.

NAMED SORTS.

Most catalogues carry too many of these. Many varieties are "back numbers," not worth keeping separate, and far inferior to hundreds of the unnamed cross-bred seedlings. Some of my named varieties are selections from Groff's, Crawford's and other fine mixtures and some of these are not to be had elsewhere under name.

PRICES, SIZES AND CARRIAGE.

My prices are the lowest asked for first class stock. Our flowers take first premiums at State and County fairs whenever exhibited. Second and third size bulbs, if they are young, grown from the bulb-let, are as good as first size except for the very late plantings. The largest will perhaps start a little stronger and flower a little earlier and have a little larger spike. Some of the choicest sorts never have large bulbs.

In order to avoid misunderstandings I list everything carriage prepaid. So, in comparing prices with other, please remember that some dealers list bulbs net, transportation to be paid by purchaser. When bulbs are ordered to be sent by express, collect, I send the larger bulbs and put in extras to cover express charges. I prefer to send by express where I can, but cannot reach all points and so much estimate at mail rates.

Parties living beyond the Fifth Zone (your postmaster can tell you) should add about 5c for each 50 bulbs to list price for extra postage and if more is sent than necessary, I will add bulbs to make it right. I always aim to do a little better than I advertise.

GROFF'S HYBRID SEEDLINGS.

("World's Best Mixture.")

First Size Bulbs, per doz. 25c; per 100\$1.50
First Size, per 1,000, by express, not prepaid ..10.00
Second Size, 1-in. to 1¼-in. diameter, per 100 . 1.00
Second Size, per 1,000 8.00
GAL—FIVE
Third Size, ½ to ¾-in. diameter, per 10060
Third Size, per 1,000 5.00

SILVER TROPHY STRAIN.

Section 1. Finest reds, scarlets and crimson, some with rich markings; prepaid, per doz; 40c; per 100.....\$3.00
Section 2. New white light and yellow, large size, in great variety of shades and with stains and blotches of rich colors, post-paid, per doz, 50c; per 100 4.00
Section 3. Rare blues in clematis, lilac, and heliotrope shades; new hybrids of the African Papilio major, but little known; per doz. 65c; per 100 4.00
Section 4. Offered only by me. Crimson lake and magenta shades, very beautiful; per doz. 75c; per 100 5.00
All 4 sections, mixed, per 100 3.00

MIXTURES AND SPECIAL STRAINS.

Oakwood Mixture—Consisting of Groff's Hybrids, Florists' Light, Lemoinei, Childsi and Gandavensis; per 100, prepaid 1.50
Lemoine Hybrids—Fine mixed; per doz, 25c; per 100 1.50
Nanceianus—Large flowers with rich Lemoine markings; per doz. 50c
Selected Light—25c per doz; per 100 1.50
25 at 100 rates; 250 at 1,000 rates.
African (Rare)—A gandavensis, very dark, almost black, with white and green in throat, 15c \$1.50 dozen.
America—Most popular light pink in the world; 5c, 40c dozen.
Alice Carey—A Childsi seeding; one of the nearest white, except a small purplish crimson throat; of great substance and remarkable keeping qualities. Shows no tinge of color in maturing as Augusta does. 10c.
Annie Wigman—Pale yellow with small dark blotch. Erect habit, 5c.
Attraction—Large, well opened flower of rose crimson; wide pure white throat, a good grower and one of the best, 10c.
Augusta—The leading commercial white. Often slightly tinted lavender. Large spike, often with 3 or 4 branches; good constitution, 5c.
Baltimore (Formerly called Salmon Queen.)—Splendid wide flower; salmon with large dark red-brown spot. Very showy; singly or in masses, 5c.
Baron Hulot—The finest clear dark violet blue, small yellow bands, 5c.
Berkshire—First offered here. Large, well-opened flower. Delicate shade of pink, penciled with dark pink in throat, which is margined straw and dotted red. Exquisite, 15c, \$1.25 dozen.
Bernice (No. 111.)—Tawny yellow with pink shadings. Early. Many open at one time, 5c.
Bertrex (Austin)—White with lilac lines in throat, size and form of America; spike tall, straight, branching. Increases rapidly and forces well. Awarded Silver Cup for best new seeding, Cleveland, 1913, 35c.
Blavista (Austin)—Very unusual. Rather dwarf growth. Flowers of good size, which, when opened inside are glistening snowy white, with deep iris blue markings in the throat, 20c.
Blanche—The finest white of the Childsi strain; large flowers of white with but faint markings of pale rose. Good substance 10c.
Blue Jay (Groff's)—The true variety; not Baron Hulot, which has been sold under this name. Tall, strong plant. Flower wide-open; light blue with white and maroon throat. The finest of this color. 20c.
Burrell (W)—Dark red, large flower and compact spike; handsome butterfly markings. Robust habit and a good increase.—Excellent. (Called also Napoleon.) 10c.
Brilliant—Glistening scarlet; white throat, 10c.
Black's Early Pink (Nanceianus)—Exclusive with us. Flower nearly as large as Mrs. King and similar in shape and open arrangement on the stem; salmon pink (not rose;) very early. 5c.
Brenchleyensis—Rich vermilion scarlet in long spike, all open at once. An old sort, but still in demand for mass of color, 5c. 40c doz. \$3.40 hundred.
California—Deep lavender pink, white throat markings, 15c.
Canary Bird (Gand)—A clear yellow of good size and fine truss, 10c.

- Candidum** (Austin)—Large white blooms; tips of petals tinted and somewhat reflexed like a lily. Tall, erect; free bloomer; forty-eight blooms on main spike and two side branches. 25c.
- Cardinal** (Crawford's)—Rich, velvety dark, scarlet with yellowish shading in throat, 10c.
- Ceres** (Gand)—White with spot of purplish pink, 5c.
- Cheerful** (W).—Upright, bright rose pink; white face, 5c.
- Cherry Diamond** (W)—Wide cherry, diamond spot margined white. Sometimes has a cockscomb-like stem. Early, 10c.
- Chicago White**—Tall spike and good medium-size flower. Many think this is the coming white for florists. Certainly fine. Early, 5c.
- Charlemagne** (French)—Giant type with very large, open flowers on massive spikes; sunrise red, flaked darker and marked with large, creamy white blotch, densely spotted with purple carmine, 20c.
- Col. A. C. Slocum** (W)—An excellent early yellow Lemoine of good medium height, marked with maroon on lower petals. Distinct. 10c, 75c dozen.
- Columbia** (Ch.)—Light orange-scarlet, freely blotched and penciled with bluish-purple. Throat freely mottled, Large, 10c.
- Contrast**—Bright scarlet, well-opened flower with large, pure white center. One of the most striking ever offered, but unfortunately increases slowly, 25c.
- Cracker Jack** (Groff 336)—Large flowers of rich velvety dark red; throat spotted yellow and dark maroon. Fine, 10c.
- Crimson Lake** (W)—Large, wide-open flower of good substance. Clear, rich, magenta crimson; rare, 10c.
- Dairy Maid**—A new offering of my own, selected from Silver Trophy strain. Large bulb, plant and flower. The latter is a delicate, yellowish cream with blue-pink blotch, 15c, \$1.50 dozen.
- Daisy Rand** (Kunderd)—Soft pink, splashed with a darker tone, the lower petals bearing a small buff blotch, penciled rose, 20c.
- Dawn** (Tracy's)—Rose pink of a beautiful tint, 15c.
- Dawnray** (Ch.)—Elegant rose with large white throat, 15c.
- Deuil de Carnot**—A superb French introduction with large, open flowers of velvety crimson-maroon, shaded with black; very rich, 20c.
- Dorene** (Kunderd)—Solid white, sometimes flushed pink, purplish spot in throat, 10c.
- Eldorado**—Early, medium sized, deep, clear yellow; lower petals spotted maroon and black.
- Empress of India**—Rich dark, velvety red, almost black; satiny buds. Very distinct. 15c, \$1.50 dozen.
- Electra**—Very large and tall. Soft vermilion scarlet with creamy stripe on lower petals. First class certificate London and Haarlem. 20c, \$1.80 dozen.
- Etendard** (Lemoine)—One of the most gorgeous Gladioli I have ever seen. Immense orchid-like flowers four inches across; upper petals rich cream, tinted rose; lower petals marked with fiery red blotch, clearly margined with bright yellow; flowers well separated on a slender but firm stem, 20c.
- Ethel** (Childsi)—One of the most beautiful and in every way desirable of the Childsi class. Beautiful soft salmon rose of good substance. Throat carmine and white. Large and robust, 10c.
- Eugene Scribe** (Gand)—One of the most popular of old sorts; well opened flower, tender rose, blazed carmine red. All open at once, 5c.
- Europa** (Pfitzer)—Large, round flowers of the purest white, of good substance and on long spikes, several open at one time. Unlike "White Lady," it has a good constitution and increases well. It is the best pure white to date. Has sold wholesale at \$1.50 each, 15c, \$1.50 dozen.
- Eva** (Childsi)—Delicate rose, shaded slate, throat mottled, 10c.
- Evaine** (Smoky Violet) (W)—A large, well-opened flower. Color, violet, underlaid with terra cotta red. Variable. Very rich and striking. Large, 10c.
- "Faust"** (As named in Holland)—Similar to Geo. Paul. Perhaps longer spike, 10c.
- Friiled Pink** (2-518)—One of the Silver Trophy Sec. 2. Not very pink, just faintly suffused. Splendid variety of good substance with rich Lemoine markings in the throat and the edges of the petals slightly frilled. An excellent seed parent, 10c.
- Gen. Langlois**—Enormous, wide-open amaryllis-like flowers of rich cherry-rose or fuchsia color, suffused with deep, rosy red in the throat and light cream markings on the lower petals. Six to eight of these large flowers are open at one time on the tall spikes, making a most showy and attractive display, 20c.
- Geo. Paul** (Same as Harvard)—Very large maroon flower, slightly stained yellow, 10c.
- Gil Blas**—Charming early bloomer of dwarf habit. Flowers salmony rose with fire red blotch, on straw colored ground, 10c.
- Glory** (Kunderd's)—Introduced to the public in 1911. The first of a new and quite distinct strain of "Ruffled" sorts. Received no less than ten awards in Europe and America. A strong grower with flowers of a delicate creamy pink, with narrow line of pink through lower petals ruffled and fluted at the edges, 10c.
- Gov. Hanley**—Rich cardinal; darker in center, 15c.
- Glory of Holland**—Of Dutch origin; pure white. Award of Merit at London and Haarlem. Excellent, 10c.
- Golden King**—Of this grand variety, offered to the public for the first time in 1912, L. Merton Gage, secretary of the American Gladiolus Society, wrote in "Horticulture" in 1910, that he considered it the best American yellow Gladiolus. On November 27th, 1912, after the National Gladiolus Society's exhibition in Chicago, he wrote: "I still consider Golden King the best blotched yellow of American origin." The stock of this variety was produced here in Independence. It resembles Golden Queen in its clear, unfading golden yellow with a vivid crimson blotch in the throat, which only enhances the beauty of the flower, but is much larger in plant and flower. From six to eight flowers are usually open on the spike at one time. Each spike from a large bulb produces from twenty-one to twenty-three of the large, round, broadly expanded flowers, which are neither crowded nor too far apart. The flowers are sometimes double, having from eight to eighteen petals instead of the usual six. This does not enhance the value except as a novelty. It is a rank erect grower. Awarded First Class Certificate by the National Gladiolus Society of England, 10c. \$1.00 dozen.
- Glory of Noordwijk**—Large flowers of soft primrose yellow with slightly deeper yellow in throat. Tall spike, often 10 or 12 flowers open at once. Considered the best yellow introduced. First Class Certificate London and Haarlem. \$1.50 each.
- Gigantic**—Enormous flower and plant. Strong constitution. White, faintly suffused lilac, which shows through on outside the tube. 20c, \$2.00 dozen.

- Goliath** (Holland)—Extremely large, dark wine colored flower. Called "dark violet" which it is not but very fine, 25c.
- Grand Violet**—Dark plum purple, self color; not violet. Flower about the size of Baron Hulot. Slender stem. Quite unique, 10c, \$1.00 dozen.
- Halley**—Very large, wide-open salmon flower of delicate tint; a great acquisition; very early. A vase of these flowers is most beautiful. First Class Certificate, 5c.
- Heliotrope**—Solid, fine, large flowers of velvety Bishop's violet, shaded with pansy purple; the richest blue I have seen, excelling Baron Hulot 20c, \$2.00 dozen.
- Herada** (Austin)—Very new and distinct "Blooms of immense size on tall, straight spike. Pure mauve with deeper markings in throat. Winner of First Prize. "Size of bloom and spike only to count."
- Hiawatha** (Hoeg)—The whole existing stock of this beautiful new variety, which originated in Iowa, is owned in Independence. It received honorable mention by the National Gladiolus Society of England and has been greatly admired by some of our most discriminating amateur growers. The flower is wide opened, a rosy pink with yellow blotch on lower petals, spotted and finely dotted crimson-red, often splashed. The plant is erect, medium tall, rather spreading, vigorous and well furnished with medium broad leaves. This is a very distinct and beautiful variety. 15c.
- Hollandia**—Grand new giant variety (Pink Brechlyensis.) Flowers well arranged in tall branching spike, four feet or more in height; often twenty or thirty flowers open at one time; delicate pink shaded yellow, 5c.
- Hyde Park** (Gand)—A cross between the old favorites, May and Shakespeare. Large open flower, upper petals white, penciled and feathered rose; lower petals distinctly blotched with cream. Foliage clean and healthy, remaining green until frost. Very early bloomer. Certificate of Merit American Institute, 1913, 10c, \$1.00 dozen.
- Ida Van**—Large, open flowers, lily-like, solid bright red to flaming pink, with darker shade of red in lower petals. First Premium at Cleveland, 1913, for best red. Award of Merit National Gladiolus Society of England, 1913, 10c, \$1.00 dozen.
- I. S. Hendrickson** (Childs)—Immense striped white and bright pink. Very fine, 10c.
- Independence** (W)—All things considered, the best light red in market under name. Strong upright grower, clean foliage, large cherry flower of perfect shape, marked white and maroon in throat, and on good spike. Stem always straight. Fine by artificial light, 5c, 50c dozen, \$3.00 hundred.
- Intensity**—Rich light scarlet lower petals spotted with white, 10c, \$1.00 dozen.
- Isaac Buchanan**—An old favorite gandavensis. A soft shade of yellow, slightly tinted red, the whole spike open at one time, making it good for decorative work, 10c, \$1.00 dozen.
- Jean Dieulafoy**—One of the indispensable sorts. Very wide creamy white flowers with lower petals blotched maroon. Lasts long as a cut flower, 10c, \$1.00 dozen.
- Jessie**—Rich velvety red; small yellow line in lower petals; long spike of well-opened flowers; early. An improvement on Brechleyensis.
- Klondyke**—Good truss and good grower; round, well opened flowers of primrose yellow with blotch of crimson-maroon on lower petals. Well known; but Maude is better, 5c, 50c dozen.
- Lady Howard de Walden**—Clear yellow, flaked with carmine. Dwarf habit, 10c, \$1.00 dozen.
- Le Pactole**—Small, very bright yellow, dark blotch. 5c, 50c dozen.
- Lily Lehman**—Extra fine lily-formed flower, generally pure white with very faint lemon tinge (no blotch) in throat. Sometimes faintly tinged pink. Often has two or three branches and is very early. 10c, 75c dozen.
- Liebesfeuer** (Holland)—Extra fine dark scarlet, without markings. The introducer calls it the finest red "what consists" to date. Award of Merit London and Haarlem. Certainly fine, 20c, \$2.00 doz.
- Lillian**—One of my introductions from Groff's Silver Trophy. Greatly admired at state and county fairs last season. Strong grower with heavy stem and wide, drooping foliage. Flower in Jean Dieulafoy style, nearly white ground, with light scarlet blotch. Great substance, 10c, 75c dozen.
- Littleton** (W)—Wonderfully robust, upright tall grower, often five feet tall; twenty to twenty-five flowers in the spike in double row; rich, dark red, dark markings in lower petals and mottled throat. 15c, \$1.20 dozen.
- Lucille**—Bright pink, slightly variegated, lower petal bright lemon color. Long spike. Distinct, 10c.
- Marie Lemoine** (L)—A slender spike of well-opened flowers, pale straw; lower petals green-yellow with purplish red blotch, 5c.
- Mad Monneret**—Delicate salmon rose Gandavensis; good spike, late bloomer, 5c, 40c. dozen.
- May** (Gand)—An old stand-by. Lovely white flower, finely flaked rosy crimson. Strong spike, good forcer, 5c, 50c dozen.
- Mrs. Francis King**—Long spike of immense flowers of Nanceianus form, light scarlet, shaded salmon. Spike often branched. Most popular scarlet, 5c, 35c dozen.
- Loveliness**—Very large wide open flowers of palest cream suffused apricot in throat. Flowers well placed on straight spike and 10 to 15 open at once, 15c, \$1.50 dozen.
- Maude** (W)—One of the best light Gladioli. Growth upright with narrow, straight leaves. Flowers of medium or light yellow with rich small maroon spots in lower petals. Superior to Klondyke, 5c 50c dozen.
- Maize**—A soft corn color, with pointed crimson tongue on lower petals; dainty and graceful, 5c.
- Meadowvale**—One of the purest white grounds. A touch of vivid crimson in the throat, line of delicate in three lower petals, 5c, 50c doz.
- Mephistopheles**—Very striking. No variety in an exhibition attracts so much attention. A bright scarlet, stained with black and yellow, 10c, \$1.00 dozen.
- Minnesota**—One of the best florist's light. Strong grower and early. A strong, long spike of well-opened flowers of pale cream with very small maroon spot. Productive and blooms from very young bulbs. Two or three weeks earlier than America. 5c, 35c dozen, \$2.50 hundred.
- Midnight** (Africana)—Dark maroon, nearly black, 10c, 75c dozen.
- Mohonk** (Ch.)—Strong light scarlet; throat finely dotted, 10c, \$1.00 dozen.
- Mrs. H. W. Beecher** (Childs)—A very popular sort. Rich dark scarlet, white throat freely spotted. 10c, \$1.00 dozen.
- Mrs. La Mance** (Childs)—Very large pale blush, almost white. Not crowded on the stem, 10c, \$1.00 dozen.

- Mrs. W. E. Fryer (K)**—Fine novelty. Very large scarlet; tall, extra strong grower; somewhat like a magnified Mohonk, 20c, \$1.50 dozen.
- Mrs. Frank Pendleton, Jr., (Kunderd)**—A remarkable variety which has sold for three years at 60c to \$1.00 each; has been likened to a big Gloxinia. Very large flowers of delicate pink, with maroon blotch. Award of Merit London, 1913; First Class Certificate, American Gladiolus Society, 1911; ditto, Massachusetts Horticultural Society, 1911. 15c, \$1.50 dozen, \$10.00 hundred.
- Mrs. G. W. Moulton (K)**—Tall spike of large magenta crimson, American Beauty color, with darker marks on lower petals. A gorgeous thing in the field or as cut flower. Greatly admired at state and other fairs. 25c each, \$2.50 dozen.
- Mrs. Scott Durand (Coblentz, No. 304.)**—Richest velvety vermilion scarlet, 10c, \$1.00 doz.
- New America (Gand., Crawford.)**—Tall strong grower; white, striped and blotched light pink. Many flowers open at once. Lighter than May and much stronger, 5c, 40c dozen.
- Niagara (Banning)**—This new yellow has created a sensation and received Certificates of Merit from Massachusetts Horticultural Society and Dutch Bulb Society at Haarlem, Holland, 1911. Open class award American Gladiolus Society, Chicago, 1912, for the best yellow. A class by itself. A rich cream combined with canary yellow. Large, thick flower on strong, tall stem. Very distinct, 10c, \$1.00 doz.
- Orchid (W)**—Not before or elsewhere offered. Long spike of round white flowers, dark blotch in throat, margined straw, 10c, \$1.00 dozen.
- Orion**—Peculiar shade of brownish red, with small yellow markings, 5c, 50c dozen.
- Panama**—A seeding of America but a much deeper rose pink. Very large and solid. First Class Certificates everywhere in Europe and America. Later than America, 10c, \$1.00 dozen.
- Peace (Groff's)**—This is a most magnificent variety, the finest of all whites. Though it has a delicate lilac spot on lower petals, the ground color is of the whitest white and the petals firm and solid. Flowers are large, well opened and borne on tall strong spikes. Lasts well in water and all buds open. Fine clean foliage. Late bloomer. Formerly sold largely at \$1.00 each. 10c, \$1.00 dozen, \$7.00 hundred.
- Pink Augusta**—Lovely pink. Habit like Augusta; fine forcing variety, 5c, 50c dozen.
- Philadelphia**—Large dark pink on immensely tall spike, 15c, \$1.25 dozen.
- Pink Beauty (Van Toll)**—Rose pink with darker blotch. Long spike, very early, 5c, 50c dozen.
- Pink Perfection.**—A remarkable variety, from Holland. First Class Certificate London and Haarlem, 1913. I find it splendid. Lovely light pink; flowers large, upwards of twenty buds closely set on long stem, six or eight flowers open at once and buds showing color, like rose buds. 20c, \$2.00 dozen.
- President Taft**—Delicate pink, red blotch, light line through each petal. Bulb, flower and spike large. Late. Fine, 5c, 50c dozen.
- Princepine (Kirchoff)**—A seeding of Princeps and an improvement in some respects. More flowers are open at a time and, though not quite so large, they are even brighter in color and have very beautiful and conspicuous throat markings. Plant considerably taller and foliage lighter green, 10c, \$1.00 dozen.
- Princeps ("The Amaryllis Flowered")**—Largest crimson scarlet, flat opened, white blotches in lower petals. Broad foliage, 5c, 50c dozen.
- Prophetesse**—Round, pearl white with crimson throat. Early 5c, 50c dozen.
- Premiere ("The First")**—Creamy white, faintly suffused with crimson; crimson blotch on lower petals; spike tall, 6 or 8 flowers open at one time. Blooms early, 75 days from planting.
- Primulinus.**—A distinct new species from South Africa. Clear primrose yellow, somewhat hooded in form, arranged separately on slender but firm stem. Has been used for crossing with other yellows, 15c.
- Primulinus Hybrids of Golden King**—Somewhat larger than the foregoing and with various shades and forms. Interesting. 10c, \$1.00 dozen.
- Queenly (W)**—Sold only by me and, though I found it among the Silver Trophy sorts, I have never seen it elsewhere. A most delightful flower; round pearly, almost white; firm and "waxy" delicate spot of faint lilac in throat, most beautifully arranged on the stem which is slender, firm and round. A splendid cut flower sort, 10c, 75c dozen.
- Queen Wilhelmina (from Holland)**—Very beautiful large open flower of delicate apple-blossom pink with pale blotches on lower petals. Extra good. Makes a mass of flowers in the row, 15c, \$1.25 dozen.
- Rosella**—Large light rose, wide open and flat, with white throat. Favorite, 10c, 75c dozen.
- Rosy Spray (Childs)**—Large and beautiful, almost white, beautifully sprayed rose, extra fine, 10c, \$1.00 dozen.
- Ruth**—Cerise pink with diamond-shaped lemon blotch on lower petals. Long, straight spike, 10c.
- Rose Wells (Austin)**—Large wide-open blooms; light clear rose color with small attractive blotch of lilac rose and yellowish green. Very tall branching spike, slender and graceful, 20c.
- Schwaben (Pfitzer)**—A fine yellow Gandevensis which has received medals and certificates. Not so deep a yellow as Golden King, but has much less conspicuous blotch, 30c, 4 for \$1.00.
- Scarsdale**—Immense lavender pink, shaded dark rose. Unique, 10c, 75c dozen, \$5.00 hundred.
- Scarlet Velvet (W)**—The richest imaginable velvet dark scarlet. Rather dwarf habit. The flowers glow in the sun like coals of fire. 10c, \$1.00 dozen.
- Sulphur Queen**—Pale clear yellow. Does not fade and has no tint of red. Long stiff spike, 10c, \$1.00 dozen.
- Scribe**—Similar to the old Eugene Scribe, but large and strong. Rose-tinted white and striped carmine. 10c, \$1.00 dozen.
- Senator Voiland**—Blue with dark violet blotch margined yellow, striped, 10c, \$1.00 dozen.
- Shirley**—Bright, rosy pink, very dark blotch, edged yellow, white line on each petal. Early and very pretty, 10c, \$1.00 dozen.
- Smoky Violet (Evaline)**—
- Shakespeare (Gand)**—White, suffused carmine-rose, rosy blotch, 10c, \$1.00 dozen.
- Silvretta**—A large, late white, with small carmine blotch on lower petals; quite like Mrs. Francis King in habit. Listed elsewhere at 30c, 15c.
- Taconic (Groff)**—Bright, lively pink with lighter throat, marked with deep crimson, shaded straw. Vigorous plant with fine spike, 10c.
- The King**—Rich, magenta, the throat bearing blotch of red on a white ground; large and wide open, very fine, 10c.

111—Tawny yellow with pink shadings. Early ("Bernice.") 5c, 50c dozen.
 112—Yellow with long red blotch. Excellent, 5c.
 113—Very large white flower with bright scarlet feather in lower petals. Slender stem, 10c.
 114—Large flower, purplish pink with large light center. Rather late 5c.
Velvet King (Called also W. M. Mason, and 312. — Not so very velvety but a splendid, wide open, dark scarlet, veined on lower petals, with dark color. Vigorous grower and makes a fine show in the row. One of the best. 10c, 75c dozen.
Victory—Delicate sulphur yellow; lower petals, shaded deeper. Tall spike, 10c.
War—Deep blood-red, shaded crimson-black, 15c.
White Lady (Pfitzer)—The finest large, pure white. Anthers white, 25c.
White Sandersoni (Rare)—A most excellent white. Broad petals of great substance, pure white with very small pink line; sturdy stem, 10c.

White Cloud—White, faintly tinted pink, branching, 10c.
Wild Rose—One of the finest. Wide flowers of delicate rose on tall, straight stem, 15c.
Willy Wigman (Dutch)—Creamy white, flushed soft pink, crimson blotch on lower petals, very pretty. First Class Certificate, 10c, 75c dozen.
Wm. Falconer (Childsi)—Finest clear pink of the Childsi strain. Large flower and spike, 10c.
White Excelsior (Rene de L'Anjou)—Similar to Augusta, but pure white. Very straight, tall and strong. 5c, 50c dozen.
Wamba (Austin)—"Enormous blooms of a deep salmon pink with darker blotch. Form unusual and distinctive being irregular, folding and ruffling. The clown of the patch. No collection complete without it. Medium tall erect spike. Broad foliage." (I found this very fine last season.) 20c.

Prices of Gladioli

FIVE CENT CLASS

America, Annie Wigman, Augusta, Baron Hulot, Bernice, Black's Early Pink, Brencleyensis, Ceres, Cheerful, Chicago White, Halley, Hollandia, Independence, Klondyke, Le Pactole, Marie Lemoine, Mad. Monneret, May, Mrs. Francis King, Maude, Maize, Meadowvale, Minnesota, New America, Orion, Pink Augusta, Pink Beauty, President Taft, Princeps, Premiere, No. 112, No. 114 and White Excelsior.

TEN CENT CLASS—

Africain, Alice Carey, Attraction, Baltimore, Blanche, Burrell, Brilliant, Canary Bird, Cardinal, Cherry Diamond, Col. A. C. Slocum, Columbia, Crimson Lake, Dorene, Lily Lehman, Grand Violet, Hyde Park, Ida Van, Lady Howard de Walden, I. S. Hendrickson, Intensity, Isaac Buchanan, Jean Dieulafoy, Willy Wigman, Wm. Falconer, Lucille, Eldorado, Ethel, Eugene Scribe, Eva, Evaline, Faust, Frilled Pink, Geo. Paul Gil Blas, Glory, Glory of Holland, Golden King, Mephistopheles, Midnight, Mohonk, Mrs. H. W. Beecher, Mrs. La Mance, Mrs. Scott Durand, Niagara, Orchid, Panama, Peace, Princepine, Prophetesse, Primulinus Hybrids, Queenly, Rosella, Rosy Spray, Ruth, Scarsdale, Scarlet Velvet, Sulphur Queen, Scribe, Senator Volland, Shirley, Shakespeare, Taconic, The King, No 113, Velvet King, Victory, White Sandersoni and White Cloud.

FIFTEEN CENT CLASS—

Bershire, California, Littleton, Dairy Maid, Dawn (Traey's), Dawnray, Empress of India, Hiawatha, Gov. Hanley, Loveliness, Mrs. Frank Pendleton, Philadelphia, Primulinus, Queen Wilhelmina, and Wild Rose and War.

TWENTY CENT CLASS—

Gen. Langlois, Gigantic, Mrs. W. E. Fryer, Pink Perfection, Rose Wells, Silvretta, Wamba, Charlemagne, Daisy Rand, Deuil de Carnot, Bluvista, Goliath, Heliotrope, Liebesfeuer, Electra, and Etendard.

TWENTY-FIVE CENT CLASS—

Mrs. G. W. Moulton, White Lady, Candidum and Contrast.

Schwaben, 35c.

Glory of Noordwijk \$1.50

ECONOMY COLLECTION

| | |
|-----------------------------------|-----|
| Baltimore..... | .10 |
| Baron Huplot | .10 |
| Augusta | .05 |
| Cracker Jack | .10 |
| Minnesota | .10 |
| Glory, Kunderd's | .10 |
| Scarlet Velvet | .10 |
| Maude (instead of Klondyke) | .10 |

All for 50 Cents.

ELITE COLLECTION

| | |
|----------------------|-----|
| Peace | .10 |
| Berkshire | .15 |
| Niagara | .10 |
| Mephistopheles | .10 |
| Rosella | .10 |
| Baron Hulot | .05 |
| Golden King | .10 |
| Jean Dienlafoy | .10 |

All for 60 Cents

POPULAR COLLECTION

| | |
|--------------------|-----|
| America | .05 |
| Augusta | .05 |
| Attraction | .10 |
| Cracker Jack | .10 |
| Canary Bird | .10 |
| Independence | .05 |
| Maude | .10 |
| May | .05 |
| Cheerful..... | .05 |
| A. C. Slocum | .10 |
| Velvet King | .10 |
| Minnesota | .05 |
| Scarsdale | .10 |

All for 60 Cents.

OAKWOOD COLLECTION

Gil Blas, Jean Dieulafoy, Baltimore, Queenly, Maude, Meadowvale, Mrs. Beecher, Scarlet Velvet, Mad Monneret, Scarsdale, Burrell, Mrs. Francis King, Wm. Falconer, Pink Beauty, Evaline. All for One Dollar.

MRS. AUSTIN'S SPECIALTIES.

| | |
|------------------|-----|
| BERTREX | .35 |
| ROSE WELLS | .30 |
| CANDIDUM.... | .25 |

SPECIAL WHOLESALE PRICES FOR LARGE AMATEUR BUYERS.

To encourage planting in quantities (which is the right way to plant Gladioli) I make the following prices on good flowering sized bulbs, an inch or more in diameter, in varieties of which I happen to have a surplus. When my own stock is exhausted these prices will cease, as I cannot buy most of them for the money. You must pay your own express or parcel postage, remitting enough for the latter at estimated cost, which I will make right in extra bulbs if you send too much.

The prices in the first column are for 10 bulbs, in the second for 100. The price for 1,000 is ascertained by multiplying the price per hundred by 9.

| | | | | | |
|---------------|-----|-----|-----|-------|--------|
| America | ... | ... | ... | \$.10 | \$.90 |
| Burrell | ... | ... | ... | .40 | 3.50 |
| Bernice (111) | ... | ... | ... | .20 | 1.50 |
| Cracker Jack | ... | ... | ... | .35 | 3.00 |
| Cheerful | ... | ... | ... | .15 | 1.35 |
| Early Pink | ... | ... | ... | .20 | 1.50 |
| Evaline | ... | ... | ... | .20 | 1.50 |
| Halley | ... | ... | ... | .25 | 1.50 |
| Independence | ... | ... | ... | .20 | 1.50 |
| Meadowvale | ... | ... | ... | .25 | 2.00 |
| Minnesota | ... | ... | ... | .35 | 3.00 |
| Mrs. F. King | ... | ... | ... | .15 | 1.25 |
| Panama | ... | ... | ... | .25 | 10.50 |
| Pres. Taft | ... | ... | ... | .25 | 2.00 |
| Velvet King | ... | ... | ... | .20 | 1.50 |

10c Sorts \$1.00 per dozen and 5c Sorts 50c per dozen unless otherwise noted.

THE MODERN GLADIOLUS GROWER.

This is the name of a little magazine, devoted entirely to the Gladiolus, published monthly at Calicum, N. Y., at 50c per year or three years for \$1.00. It is handsomely printed and illustrated and contains correspondence, answers to questions and other in-

formation, besides interesting advertisements. I will forward subscriptions on receipt of the price and give as a premium 20 flowering size gladiolus bulbs. Or I will send it free, as a premium on request with any order of \$3.00 from my catalogue.

TUBEROUS-ROOTED BEGONIAS.

I believe that multitudes of flower lovers have never realized the wonderful beauty of Tuberous Begonias, as summer flowering plants. They embrace colors from pure white through pink, scarlet, crimson and yellow and either single or double. There is a new strain with fringed and ruffled petals. They grow best in partly shaded places and are gorgeous in window gardens. They may be planted in the outside window boxes but I plant mine in 4 inch pots, starting them rather early in the house, and when the weather is warm I sink the pots in the earth in the boxes along with other plants. When the cold windy days of autumn come I can take them in for

a day or two and when the cold snap is over I put them out again; so I have their beauty late. At the end of the season I just put them away in the pots in a frost proof room and use them again next spring repotting in new soil. The flowers are from 4 to 6 inches or more in diameter.

Single Varieties to Color.—Scarlet, Crimson, White,

Rose, Yellow, Orange 7c each, 75c doz, \$.5. per 100.

Single in Mixture—60c doz, \$4.00 per 100.

Double in Separate Colors—10c each, \$1.00 per doz.

Single Frilled—Pink, white and yellow, 15c each,

\$1.50 per doz.

Double Frilled, Assorted Colors—20c each, \$2.00 doz.

GEO. S. WOODRUFF

Independence

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∴

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Iowa